Capstone Project 2 Agile-Scrum

**Question 1 Write Agile Manifesto**

**Answer**

The Manifesto for Agile Software Development is a foundational document produced by 17 developers at Snowbird, Utah in 2001. This document consists of 4 Agile Values and 12 Agile Principles, emphasizing collaboration, flexibility, and customer satisfaction. These 12 principles and 4 agile values provide a guide to Software Developers. The Manifesto for Agile Software Development emerged as a transformative guide to Software Development.

4 Core Values of the tackle Agile Manifesto

1. Individuals and Interactions over Processes and Tools: Focuses on the importance of effective communication and collaboration among team members.

2. Working Software over Comprehensive Documentation: Prioritizes the delivery of functional software as the primary measure of progress.

3. Customer Collaboration over Contract Negotiation: Encourages customers and stakeholders to have active involvement throughout the development process.

4. Responding to Change over Following a Plan: On changing requirements, embracing flexibility and ability to adapt even late in the development process.

12 Principles of Agile Manifesto

1. Customer Satisfaction through Early and Continuous Delivery: This principle concentrates on the importance of customer satisfaction by providing information to customers early on time and also with consistency throughout the development process.

2. Welcome Changing Requirements, Even Late in Development: Agile processes tackle change for the customer's competitive advantage. Even late in development, changes in requirements are welcomed to ensure the delivered software meets the evolving requirements of the customer.

3. Deliver Working Software Frequently: This principle encourages the regular release of functional software increments in short iterations. This enables faster feedback and adaptation to changing requirements.

4. Collaboration between Business Stakeholders and Developers: This says the businesspeople and developers must work together daily throughout the project. There should be communication and collaboration between stakeholders and the development team regularly. This is crucial for understanding and prioritizing requirements effectively.

5. Build Projects around Motivated Individuals: This promotes in giving developers the environment and support they need and trusts them to complete the job successfully. Motivated and empowered individuals are more likely to produce work with quality and make valuable contributions to the project.

6. Face-to-face communication is the Most Effective: Face-to-face communication is the most effective method of discussion and conveying information. This principle depicts the importance of direct interaction which helps minimize misunderstandings, and hence effective communication is achieved.

7. Working Software is the Primary Measure of Progress: This principle emphasizes delivering functional and working software as the primary metric for project advancement. It encourages teams to prioritize the continuous delivery of valuable features, so it ensures that good progress is consistently achieved throughout the process. The primary goal is to provide customers with incremental value and also gather feedback early in the project life cycle.

8. Maintain a Sustainable Pace of Work: Agile promotes sustainable development. All people involved: The sponsors, developers, and users should be able to maintain a constant pace indefinitely. This principle depicts the need for a sustainable and consistent development pace. This helps in avoiding burnout and ensures long-term project success.

9. Continuous Attention to Technical Excellence and Good design: This principle is on the importance of maintaining high standards of technical craft and design, so it ensures the long-term ability in maintenance and adaptability of the software.

10. Simplicity—the Art of Maximizing the Amount of Work Not Done: Simplicity is essential. The objective here is to concentrate on the most valuable features and tasks and avoid unnecessary complexity as the art of maximizing the amount of work not done is crucial.

11. Self-Organizing Teams: Self-organizing teams provide the best architectures, requirements, and designs. These help in empowering teams to make decisions and organize to optimize efficiency and creativity.

12. Regular Reflection on Team Effectiveness: This makes the team reflect on how to become more effective at regular intervals and then adjust accordingly. Continuous improvement is very crucial for adapting to changing circumstances and optimizing the team's performance over time.

**Question 2 User stories- Acceptance Criteria- BV-CP**

Write minimum 40 User stories and their Acceptance Criteria along with their BV and CP

**Answer**

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| User Story No.: 1 | Tasks: 2  | Priority: HIGHEST |
| AS A DELIVERY BOYI WANT TO REGISTER IN SCRUM FOODSSO THAT I CAN DELIVER ORDERS |
| BV: 500 | CP: 02 |
| ACCEPTANCE CRITERIARegistration ScreenText Boxes for User Name, Password, Nation ID, Mobile No, Email, Address,Phone Number.Click on Register Button.Send Successful Notification to the user |

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| User Story No.: 2 | Tasks: 2  | Priority: HIGHEST |
| AS A RESTAURANT OWNERI WANT TO VIEW ORDERSSO THAT I CAN VIEW THE LIST OF ORDERS |
| BV: 500 | CP: 2 |
| Acceptance Criteria:View Order, Display List of orders in the tabular Form |

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| User Story No.: 3 | Tasks: 2  | Priority: HIGHEST |
| AS A CUSTOMERI WANT TO ADD THE ADDRESSSO THAT I CAN GET THE ORDER TO MY ADDRESS |
| BV: 500 | CP: 2 |
| Acceptance Criteria:Text Box to enter.Business Rules: Within the radius of 5 km |

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| User Story No.: 4 | Tasks: 2  | Priority: HIGHEST |
| AS A CUSTOMERI WANT TO SELECT THE PAYMENT MODESO THAT I CAN MAKE PAYMENT OF MY CHOICE |
| BV: 500 | CP: 3 |
| Acceptance Criteria:Display payment modes, radio buttons to select payment modes, paymentsbutton.Business Rule. Can select only one payment mode |

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| User Story No.: 5 | Tasks: 2  | Priority: HIGHEST |
| AS AN ADMINI WANT TO VIEW THE RESTAURANTSSO THAT I CAN APPROVE THEIR REGISTRATION |
| BV: 500 | CP: 2 |
| Acceptance Criteria:List of restaurants, select Restaurants, verify restaurant details, approvebutton, reject button, notification to the restaurant. |

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| User Story No.: 6 | Tasks: 2  | Priority: LOW |
| AS A CUSTOMERI WANT TO VIEW THE PRICESO THAT I CAN ORDER THE FOOD |
| BV: 50 | CP: 1 |
| Acceptance Criteria:Display price in the list of menu items |

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| User Story No.: 7 | Tasks: 2  | Priority: LOW |
| AS A CUSTOMERI WANT TO VIEW THE CONTACT NUMBER OF DELIVERY BOYSO THAT I CAN CONTACT DELIVERY BOY FOR THE STATUS |
| BV: 50 | CP: 1 |
| Acceptance Criteria:1. Display delivery boy mobile number2. Display delivery boy name in tracking field3. Display delivery boy picture |

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| User Story No.: 8 | Tasks: 2  | Priority: MEDIUM |
| AS A CUSTOMERI WANT TO VIEW THE CONTACT NUMBER OF DELIVERY BOYSO THAT I CAN CONTACT DELIVERY BOY FOR THE STATUS |
| BV: 100 | CP: 2 |
| Acceptance Criteria:1. Click on restaurant dashboard2. Add from time to time3. Click on submit4. Display updated successfully |

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| User Story No.: 9 | Tasks: 2  | Priority: HIGH |
| AS A BUSINESS OWNERI WANT TO VIEW RESTAURANT REVENUE REPORTSO THAT I CAN VIEW THE RESTAURANT’S REVENUE |
| BV: 200 | CP: 3 |
| Acceptance Criteria:Select ReportsSelect Revenue ReportsSelect to and from dateSelect Region (can select all)Generate ReportDownload Report in EXCEL |

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| User Story No.: 10 | Tasks: 3  | Priority: HIGH |
| AS A REG ADMINI WANT TO MANAGE REGIONAL RESTAURANTS,SO THAT, I CAN TRACK THE PERFORMANCE OF REGIONAL RESTAURANTS |
| BV: 200 | CP: 3 |
| Acceptance Criteria:CLICK ON PERFORMANCE OF RESTAURANTSSELECT FROM DATE TO DATECLINCK ON GENERATE REPORT WHICH INCLUSES RESTAURANTS ID, NAME,REVENUECLICK ON DOWNLOAD REPORT SHOULD BE IN EXCEL |

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| User Story No.: 11 | Tasks: 2  | Priority: MEDIUM |
| AS ADMINI WANT TO SEE THE REGIONAL REVENUE REPORTS,SO THAT I CAN VIEW THE REGIONAL PERFORMANCE |
| BV: 100 | CP: 3 |
| Acceptance Criteria:Select regional dropdownView performance of each rest of that region in tabular form which includesrest name, revenue, generatedDownload in excel or PDF |

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| User Story No.: 12 | Tasks: 2  | Priority: HIGH |
| AS A CUSTOMERI WANT TO CHAT WITH REG ADMINSO THAT I CAN REQUEST FOR REFUND |
| BV: 200 | CP: 2 |
| Acceptance Criteria:1) BR-ALL MANDATORY2) TEXT BOX FIELDS3) DISPLAY ORDER ID4) TEXT BOX, FOR DESCRIPTION5) SUBMIT BUTTON6) GENERATE ISSUE ID7) DISPLAY SUCCESSFUL |

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| User Story No.: 13 | Tasks: 2  | Priority: MEDIUM |
| AS A REGIONAL ADMINISTRATORI WANT TO APPROVE/REJECT RESTAURANT APPLICATIONSSO THAT I CAN MAINTAIN QUALITY STANDARDS IN MY REGION |
| BV: 300 | CP: 2 |
| ACCEPTANCE CRITERIA:VIEW RESTAURANT APPLICATIONSVERIFY DOCUMENTATIONCONDUCT QUALITY CHECKSSEND APPROVAL/REJECTION NOTIFICATIONSTRACK APPLICATION STATUS |

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| User Story No.: 14 | Tasks: 2  | Priority: HIGH |
| AS A RESTAURANT OWNERI WANT TO MANAGE INVENTORYSO THAT I CAN UPDATE ITEM AVAILABILITY |
| BV: 300 | CP: 3 |
| ACCEPTANCE CRITERIA:REAL-TIME STOCK UPDATESLOW STOCK ALERTSAUTOMATIC ITEM STATUSINVENTORY HISTORYSTOCK PREDICTION TOOLS |

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| User Story No.: 15 | Tasks: 2  | Priority: HIGH |
| AS A RESTAURANT OWNERI WANT TO VIEW CUSTOMER FEEDBACKSO THAT I CAN IMPROVE SERVICE QUALITY |
| BV: 150 | CP: 2 |
| ACCEPTANCE CRITERIA:VIEW RATINGS AND REVIEWSRESPONSE MANAGEMENTFEEDBACK ANALYTICSCUSTOMER SATISFACTION METRICSGENERATE FEEDBACK REPORTS |

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| User Story No.: 16 | Tasks: 2  | Priority: HIGH |
| AS A RESTAURANT OWNERI WANT TO MANAGE SPECIAL OFFERSSO THAT I CAN ATTRACT MORE CUSTOMERS |
| BV: 200 | CP: 2 |
| ACCEPTANCE CRITERIA:CREATE TIME-BASED OFFERSSET DISCOUNT PERCENTAGESDEFINE MINIMUM ORDER VALUESSCHEDULE PROMOTIONSTRACK OFFER PERFORMANCE |

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| User Story No.: 17 | Tasks: 2  | Priority: MEDIUM |
| AS A CUSTOMERI WANT TO CREATE GROUP ORDERSSO THAT I CAN ORDER FOOD WITH OTHERS |
| BV: 250 | CP: 3 |
| ACCEPTANCE CRITERIA:CREATE GROUP ORDERSHARE JOINING LINKINDIVIDUAL ITEM SELECTIONSPLIT PAYMENT OPTIONSORDER CONSOLIDATION |

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| User Story No.: 18 | Tasks: 2  | Priority: MEDIUM |
| AS A CUSTOMERI WANT TO SHARE MY ORDER STATUSSO THAT OTHERS CAN TRACK MY DELIVERY |
| BV: 100 | CP: 2 |
| ACCEPTANCE CRITERIA:GENERATE SHARING LINKREAL-TIME STATUS UPDATESMAP VIEW OF DELIVERYESTIMATED ARRIVAL TIMEORDER DETAILS DISPLAY |

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| User Story No.: 19 | Tasks: 2  | Priority: MEDIUM |
| AS A CUSTOMERI WANT TO SCHEDULE FUTURE ORDERSSO THAT I CAN PLAN MY MEALS IN ADVANCE |
| BV: 200 | CP: 3 |
| ACCEPTANCE CRITERIA:CALENDAR SELECTION INTERFACETIME SLOT SELECTIONSPECIAL INSTRUCTIONSPAYMENT SCHEDULINGORDER CONFIRMATION SYSTEM |

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| User Story No.: 20 | Tasks: 2  | Priority: MEDIUM |
| AS A REGIONAL ADMINISTRATORI WANT TO MONITOR DELIVERY PERFORMANCE METRICSSO THAT I CAN OPTIMIZE DELIVERY OPERATIONS |
| BV: 250 | CP: 3 |
| ACCEPTANCE CRITERIA:TRACK AVERAGE DELIVERY TIMESMONITOR DELIVERY SUCCESS RATESVIEW REAL-TIME DELIVERY STATUSGENERATE PERFORMANCE REPORTSSET PERFORMANCE BENCHMARKS |

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| User Story No.: 21 | Tasks: 2  | Priority: MEDIUM |
| AS A RESTAURANTI WANT TO MANAGE PEAK HOUR SETTINGSSO THAT I CAN HANDLE BUSY PERIODS |
| BV: 250 | CP: 2 |
| ACCEPTANCE CRITERIA:SET PEAK HOURSADJUST DELIVERY TIMESMODIFY SERVICE CAPACITYSPECIAL PRICING RULESORDER LIMIT SETTINGS |

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| User Story No.: 22 | Tasks: 2  | Priority: MEDIUM |
| AS A CUSTOMERI WANT TO REFER FRIENDSSO THAT I CAN EARN REWARDS |
| BV: 200 | CP: 2 |
| ACCEPTANCE CRITERIA:GENERATE REFERRAL CODETRACK REFERRALSREWARD CALCULATIONSHARE VIA SOCIAL MEDIAREFERRAL HISTORY |

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| User Story No.: 23 | Tasks: 2  | Priority: LOW |
| AS A CUSTOMERI WANT TO RATE MY DELIVERY EXPERIENCESO THAT I CAN PROVIDE FEEDBACK |
| BV: 150 | CP: 2 |
| ACCEPTANCE CRITERIA:RATING SYSTEM (1-5 STARS)COMMENTS SECTIONPHOTO UPLOAD OPTIONDELIVERY PERSON RATINGRESTAURANT RATING |

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| User Story No.: 24 | Tasks: 2  | Priority: HIGH |
| AS A CUSTOMERI WANT TO MANAGE MY PAYMENT METHODSSO THAT I CAN PAY CONVENIENTLY |
| BV: 400 | CP: 3 |
| ACCEPTANCE CRITERIA:ADD/REMOVE PAYMENT METHODSSET DEFAULT PAYMENTSAVE CARD INFORMATIONWALLET MANAGEMENTPAYMENT HISTORY |

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| User Story No.: 25 | Tasks: 2  | Priority: HIGH |
| AS A BUSINESS OWNERI WANT TO MANAGE PLATFORM SETTINGSSO THAT I CAN MAINTAIN SYSTEM CONFIGURATION |
| BV: 300 | CP: 3 |
| ACCEPTANCE CRITERIA:COMMISSION RATE SETTINGSSERVICE CHARGE CONFIGURATIONPLATFORM-WIDE NOTIFICATIONSSYSTEM PARAMETERSBACKUP SETTINGS |

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| User Story No.: 26 | Tasks: 2  | Priority: HIGH |
| AS A BUSINESS OWNERI WANT TO ANALYZE CUSTOMER TRENDSSO THAT I CAN MAKE INFORMED BUSINESS DECISIONS |
| BV: 350 | CP: 3 |
| ACCEPTANCE CRITERIA:CUSTOMER BEHAVIOR ANALYTICSORDER PATTERN ANALYSISPEAK TIME IDENTIFICATIONCUSTOMER SEGMENTATIONTREND VISUALIZATION |

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| User Story No.: 27 | Tasks: 2  | Priority: HIGH |
| AS A BUSINESS OWNERI WANT TO GENERATE FINANCIAL REPORTSSO THAT I CAN TRACK BUSINESS PERFORMANCE |
| BV: 400 | CP: 3 |
| ACCEPTANCE CRITERIA:DAILY/WEEKLY/MONTHLY REPORTSREVENUE BREAKDOWNCOMMISSION CALCULATIONSEXPORT FUNCTIONALITYCUSTOM DATE RANGES |

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| User Story No.: 28 | Tasks: 2  | Priority: MEDIUM |
| AS A DELIVERY PERSONI WANT TO RECEIVE INSTANT NOTIFICATIONSSO THAT I CAN RESPOND TO DELIVERY REQUESTS QUICKLY |
| BV: 250 | CP: 2 |
| ACCEPTANCE CRITERIA:PUSH NOTIFICATIONSSOUND ALERTSVIBRATION ALERTSPRIORITY ORDER FLAGSNOTIFICATION HISTORY |

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| User Story No.: 29 | Tasks: 2  | Priority: MEDIUM |
| AS A DELIVERY PERSONI WANT TO REPORT DELIVERY ISSUESSO THAT I CAN HANDLE PROBLEMATIC SITUATIONS |
| BV: 200 | CP: 2 |
| ACCEPTANCE CRITERIA:ISSUE CATEGORIZATIONPHOTO UPLOAD CAPABILITYREAL-TIME SUPPORT CHATGPS LOCATION SHARINGISSUE RESOLUTION TRACKING |

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| User Story No.: 30 | Tasks: 2  | Priority: MEDIUM |
| AS AN ADMINISTRATORI WANT TO MANAGE PROMOTIONAL CAMPAIGNSSO THAT I CAN DRIVE USER ENGAGEMENT |
| BV: 400 | CP: 3 |
| ACCEPTANCE CRITERIA:CREATE PROMOTIONSSET VALIDITY PERIODSDEFINE TARGET SEGMENTSTRACK PROMOTION USAGEANALYZE CAMPAIGN PERFORMANCE |

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| User Story No.: 31 | Tasks: 2  | Priority: MEDIUM |
| AS AN ADMINISTRATORI WANT TO MONITOR SYSTEM METRICSSO THAT I CAN ENSURE SMOOTH OPERATIONS |
| BV: 300  | CP: 3 |
| ACCEPTANCE CRITERIA:REAL-TIME DASHBOARDPERFORMANCE METRICSERROR LOGGINGUSER ACTIVITY TRACKINGGENERATE SYSTEM REPORTS |

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| User Story No.: 32 | Tasks: 2  | Priority: MEDIUM |
| AS AN ADMINISTRATORI WANT TO MANAGE USER COMPLAINTSSO THAT I CAN MAINTAIN SERVICE QUALITY |
| BV: 400 | CP: 3 |
| ACCEPTANCE CRITERIA:VIEW ALL COMPLAINTSASSIGN PRIORITY LEVELSTRACK RESOLUTION STATUSCOMMUNICATE WITH USERSGENERATE REPORTS |

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| User Story No.: 33 | Tasks: 2  | Priority: MEDIUM |
| AS A DELIVERY PERSONI WANT TO TRACK MY EARNINGSSO THAT I CAN MONITOR MY INCOME |
| BV: 200 | CP: 2 |
| ACCEPTANCE CRITERIA:DAILY EARNINGS SUMMARYWEEKLY/MONTHLY REPORTSTIPS BREAKDOWNPAYMENT HISTORYEXPORT EARNINGS REPORT |

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| User Story No.: 34 | Tasks: 2  | Priority: HIGH |
| AS A DELIVERY PERSONI WANT TO SET MY AVAILABILITY STATUSSO THAT I CAN RECEIVE DELIVERY ASSIGNMENTS |
| BV: 300 | CP: 2 |
| ACCEPTANCE CRITERIA:ONLINE/OFFLINE TOGGLESET WORKING HOURSUPDATE CURRENT LOCATIONVIEW ASSIGNED ZONESET BREAK TIME |

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| User Story No.: 35 | Tasks: 2  | Priority: HIGH |
| AS A RESTAURANT OWNERI WANT TO MANAGE DELIVERY ZONESSO THAT I CAN DEFINE MY SERVICE AREA |
| BV: 400 | CP: 3 |
| ACCEPTANCE CRITERIA:SET DELIVERY RADIUSDEFINE MULTIPLE ZONESSET ZONE-BASED PRICINGUPDATE DELIVERY TIMESVIEW ZONE MAP |

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| User Story No.: 36 | Tasks: 2  | Priority: HIGH |
| AS A RESTAURANT OWNERI WANT TO UPDATE MY MENU ITEMSSO THAT I CAN KEEP MY OFFERINGS CURRENT |
| BV: 500 | CP: 3 |
| ACCEPTANCE CRITERIA:ADD/EDIT/DELETE MENU ITEMSSET PRICES AND DESCRIPTIONSUPLOAD FOOD IMAGESMARK ITEMS AS AVAILABLE/UNAVAILABLESET SPECIAL OFFERS |

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| User Story No.: 37 | Tasks: 2  | Priority: HIGH |
| AS A CUSTOMERI WANT TO FILTER RESTAURANTS BY CUISINE TYPESO THAT I CAN FIND SPECIFIC FOOD I'M CRAVING |
| BV: 200 | CP: 2 |
| ACCEPTANCE CRITERIA:MULTIPLE CUISINE TYPE SELECTIONCLEAR CATEGORY DISPLAYQUICK FILTER OPTIONSSAVE FAVORITE CUISINESRESET FILTER OPTION |

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| User Story No.: 38 | Tasks: 2  | Priority: HIGH |
| AS A CUSTOMERI WANT TO CREATE AND MANAGE MY PROFILESO THAT I CAN SAVE MY PREFERENCES AND ORDER HISTORY |
| BV: 300 | CP: 2 |
| ACCEPTANCE CRITERIA:PROFILE CREATION FORM WITH VALIDATIONPASSWORD RESET FUNCTIONALITYEDIT PROFILE INFORMATIONVIEW ORDER HISTORYSAVE FAVORITE RESTAURANTS |

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| User Story No.: 39 | Tasks: 2  | Priority: HIGH |
| AS A CUSTOMERI WANT TO SEARCH FOR RESTAURANTS NEAR MESO THAT I CAN FIND PLACES THAT DELIVER TO MY LOCATION |
| BV: 500 | CP: 3 |
| ACCEPTANCE CRITERIA:LOCATION-BASED SEARCH FUNCTIONALITYFILTER RESTAURANTS BY DISTANCEDISPLAY ESTIMATED DELIVERY TIMESHOW RESTAURANT RATINGS AND REVIEWSDISPLAY DELIVERY RADIUS |

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| User Story No.: 40 | Tasks: 2  | Priority: MEDIUM |
| AS A DELIVERY PERSONI WANT TO OPTIMIZE MY DELIVERY ROUTESO THAT I CAN COMPLETE MORE DELIVERIES |
| BV: 250 | CP: 3 |
| ACCEPTANCE CRITERIA:ROUTE OPTIMIZATIONMULTIPLE DELIVERY HANDLINGTRAFFIC UPDATESALTERNATIVE ROUTE SUGGESTIONSDELIVERY TIME ESTIMATES |

**Question 3 What is epic? Write 2 epics**

**Answer**

An epic is a large body of work that can be broken down into smaller user stories. It's essentially a high-level requirement or request that needs to be split into smaller, more manageable pieces (user stories) because it's too big to be completed within a single sprint. Epics help in organizing related user stories and managing large features or functionality.

Here are 2 epics for the Scrum Foods application:

Epic 1: Customer Order Management System

Description: Complete end-to-end food ordering experience for customers

Contains user stories related to:

* Restaurant search and discovery
* Menu browsing and item selection
* Cart management
* Payment processing
* Order tracking
* Delivery status updates
* Order history
* Rating and feedback
* Address management
* Payment method management

Epic 2: Restaurant Management Platform

Description: Comprehensive restaurant operations and order fulfilment system

Contains user stories related to:

* Restaurant profile management
* Menu management
* Order processing
* Inventory management
* Delivery zone settings
* Pricing and promotions
* Performance analytics
* Revenue reporting
* Customer feedback management
* Peak hour management

**Question 4 What is the difference between BV and CP?**

**Answer**

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| **Business Value** | **Complexity Points** |
|  |  |
| Determined by Stakeholders (Clients) | Also known as Story Points (SP). Determined by Scrum Developers |
| Represents how important the feature is to the business | Represents the effort required to develop the feature |
| NOT related to development cost or complexity | Includes time taken to solve complexity and write code |
| Estimated using Scrum Currency Notes (Rs 1000, Rs 500, Rs 100, Rs 50, Rs 20, Rs 10) | Estimated using Poker cards with values (?, 1, 2, 3, 5, 8, 13, 20, 40, 100, BIG) |
| If stakeholders select different values, they discuss and agree on one BV value | If developers select different values, they discuss and agree on one CP value |
| Focuses on business importance and potential return on investment | Focuses on technical complexity and development effort |

**Question 5 Explain about Sprint**

**Answer**

A Sprint is a fixed-length time period in which the Scrum team works to complete a set amount of work. From the documentation, the Sprint duration for this project is 2 weeks.

Key Sprint Components:

1. Sprint Duration & Timings:

- Sprint Duration: 2 weeks

- Scrum Duration: 1 day (daily unit within a sprint)

- Sprint Backlog Elements:

 - PBI: Product Backlog Item

 - Tasks: Unit of Work done by 1 Developer in 1 Scrum

 - WIP: Work in Progress

 - Done: Completed work

2. Sprint Planning Meeting:

- Purpose: All 8 Scrum Developers gather before sprint starts

- Activities:

 - Determine how many user stories they can develop in 1 sprint (2 weeks)

 - Move selected items from Product Backlog to Sprint Backlog

 - Consider inputs from previous Sprint Retrospective meeting

3. Daily Scrum Meeting (Stand-up):

- Daily meeting where developers answer 3 key questions:

 a. What task did you work in this scrum?

 b. What task will you work on next scrum?

 c. Any Challenges/impediments? When will you complete the user story?

4. Sprint Closing Activities:

- Product Increment Delivery: Taking items from "Done" state to deliver to client

- Sprint Retrospective:

 - Only Scrum Developers participate

 - Discuss challenges faced

 - Document lessons learned for next sprint planning

- Sprint Review:

 - All stakeholders participate (Developers, Product Owner, Scrum Master, Client, 3rd party reviewers)

 - Review key metrics:

 - Velocity (CP covered in sprint)

 - Sprint Burn Down Chart

 - Product Burn Down Chart

 - Product insights for improvement

This sprint structure ensures regular delivery of working software while maintaining transparency and continuous improvement through various feedback mechanisms.

**Question 6 Explain Product backlog and sprint back log**

**Answer**

Product Backlog:

This is the master list of all work desired for the product containing all User Stories that need to be developed

Key Characteristics:

 - Maintained by the Product Owner

 - Dynamic and continually evolving

 - Prioritized list based on business value

 - Contains both high-level features (epics) and detailed user stories

 - Items have assigned Business Value (BV) and Complexity Points (CP)

Sprint Backlog:

This is a subset of the Product Backlog selected for current sprint containing work committed for the current sprint

Key Characteristics:

 - Created during Sprint Planning Meeting

 - More detailed than Product Backlog items

 - Managed by Development Team

 - Updated daily during Scrum meetings

 - Shows real-time status of work

**Question 7 What is impediments log? write 2 impediments.**

**Answer**

Impediments Log:

A formal record of obstacles that hinder the team's progress which documents challenges that slow down or block work. It is used to track and manage resolution of issues and helps prevent similar issues in future sprints. Reviewed during daily scrum meetings.

Example Impediments:

Impediment 1:

Title: Third-Party Payment Gateway Integration Issue

Description:

- Problem: Integration with payment gateway API is failing intermittently

- Impact: Blocking completion of payment-related user stories

- Current Status: Blocker

- Affected User Stories: Customer payment processing (US #4, US #26)

- Resolution Steps:

 \* Contacted payment gateway support

 \* Awaiting API documentation update

 \* Team needs additional testing environment

Priority: High

Reported By: Linesh Vegad (Scrum Developer)

Date Reported: -

Impediment 2:

Title: Real-time Location Tracking Service Performance

Description:

- Problem: Google Maps service throttling due to high request volume

- Impact: Affecting delivery tracking functionality

- Current Status: Performance Issue

- Affected User Stories: Delivery tracking (US #7, US #20)

- Resolution Steps:

 \* Need to implement request caching

 \* Optimize API calls

 \* Evaluate alternative service providers

Priority: Medium

Reported By: Gowri (Scrum Developer)

Date Reported: -

These impediments would be discussed during daily scrum meetings and tracked until resolution. They help the team identify bottlenecks and take corrective actions to maintain sprint velocity.

**Question 8 Explain Velocity of the Team**

**Answer**

Velocity is defined as how many Complexity Points (CP) are covered in a sprint by the team. It's a measure of the team's productivity and delivery capability.

Key Aspects of Team Velocity:

1. Measurement

2. Purpose

3. Usage in Project

4. Benefits

Velocity is a key metric discussed during Sprint Review meetings and helps stakeholders understand team capacity and project progress.

**Question 9 Draw Sprint Burn Charts and Product Burn Down Charts**

**Answer**

Sprint Burndown Chart

**Question 10 Explain about Product Grooming**

**Answer**

Product Grooming, also known as Product Backlog Refinement, is used for product improvements and maintaining the health of the Product Backlog. It's used for Product insights for improvement.

Key Aspects of Product Grooming:

1. Purpose

2. Activities

3. Participants

4. When it Occurs

5. Benefits

Product Grooming is essential for maintaining an effective and efficient development process in the Scrum Foods project.

**Question 11 Explain the roles of Scrum Master and Product Owner**

**Answer**

Scrum Master Role:

1. Team Support and Facilitation

2. Process Guardian

3. Organizational Support

Product Owner Role:

1. Product Vision and Direction

2. Backlog Management

3. Stakeholder Management

4. Value Maximization

Key Differences:

- Scrum Master focuses on process and team effectiveness

- Product Owner focuses on product value and business outcomes

- Scrum Master serves the team

- Product Owner serves the business

**Question 12 Explain all Meetings Conducted in Scrum Project**

**Answer**

Here are all the meetings conducted in a Scrum Project:

1. Sprint Planning Meeting

- Timing: Before sprint starts

- Duration: Typically, 2-4 hours

- Participants: All 8 Scrum Developers, Scrum Master, Product Owner

- Activities:

 \* Determine sprint capacity

 \* Select user stories from Product Backlog

 \* Move selected items to Sprint Backlog

 \* Consider previous sprint retrospective inputs

2. Daily Scrum Meeting (Stand-up)

- Timing: Daily, same time each day

- Duration: 15 minutes

- Participants: Development team, Scrum Master

- Three key questions:

 \* What did you work on in this scrum?

 \* What will you work on next scrum?

 \* Any challenges/impediments? When will you complete the user story?

3. Sprint Review Meeting

- Timing: End of sprint

- Participants: All stakeholders (Developers, Product Owner, Scrum Master, Client, 3rd party reviewers)

- Focus areas:

 \* Review velocity (CP covered)

 \* Sprint Burn Down Chart

 \* Product Burn Down Chart

 \* Product insights

 \* Demo completed work

 \* Get stakeholder feedback

4. Sprint Retrospective Meeting

- Timing: After sprint completion

- Participants: Only Scrum Developers

- Activities:

 \* Discuss challenges faced

 \* Identify lessons learned

 \* Plan improvements

 \* Document insights for next sprint planning

5. Product Grooming/Backlog Refinement

- Timing: Regular intervals during sprint

- Participants: Product Owner, Development Team

- Activities:

 \* Refine user stories

 \* Update estimates

 \* Clarify requirements

 \* Prioritize backlog items

6. Release Planning Meeting

- Timing: Before major releases

- Participants: All stakeholders

- Activities:

 \* Plan release schedule

 \* Define release scope

 \* Identify dependencies

 \* Set milestone dates

Each meeting serves a specific purpose in the Scrum framework and helps maintain:

- Transparency

- Regular communication

- Continuous improvement

- Stakeholder alignment

- Project progress tracking

These meetings are essential for the successful delivery of the Scrum Foods application while following Agile principles.

**Question 13 Explain Sprint Size and Scrum Size**

**Answer**

Sprint Size:

Duration: 2 weeks

This is the fixed time period for completing a set of committed user stories

Characteristics:

Fixed length throughout the project

Can't be changed once sprint starts

Contains multiple scrums

Results in potentially shippable product increment

Scrum Size:

Duration: 1 day

This is a subunit of Sprint

Characteristics:

Basic unit of development time

One working day duration

Contains tasks that can be completed in one day

Ends with Daily Scrum meeting

**Question 14 Explain DOR and DOD**

**Answer**

Definition of Ready (DOR):

Criteria that must be met before a user story can be taken into a sprint

Key Components:

1. User Story Format

2. INVEST Criteria

3. Requirements

Definition of Done (DOD):

Criteria that must be met before a user story can be considered complete

Key Components:

1. Development Completion

2. Quality Assurance

3. Documentation

4. Business Acceptance

**Question 15 Explain Prioritization Techniques and MVP**

**Answer**

Prioritization techniques are methods used to rank and select the most important tasks or features to work on first, based on factors like their value, impact, and development effort.

MVP (Minimum Viable Product) is a product with the bare minimum set of features needed to validate a concept with early users, meaning you prioritize the most essential features to build first to get initial feedback and iterate based on user needs.

**Question 16 Difference between Business Analyst and Product Owner**

**Answer**

|  |  |
| --- | --- |
| Business Analyst | Product Owner |
|  |  |
| A business analyst focuses on analysing processes and recommending solutions | A product owner focuses on managing product development and ensuring it meets customer needs |
| Focuses on technical aspects of product development, such as processes, workflows, and issues | Focuses on customer-related aspects of product development, such as customer needs and product vision |
| Analyses processes and workflows, identifies problems, and recommends solutions | Manages product development, prioritizes features, and makes decisions about the product's direction |

**Question 17 Prepare a sample Resume of 3yrs exp Product Owner**

**Answer**